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| TRANSMITTAL FORM | | | | | -+ | | |
| | | | Filing Date First Named Inventor | | | 08/18/2003 | |
| | | | | | r ' | viantre | d Schumacher |
| (to be used for all co | rrespondence after II | nitiai tiling) | | Art Unit | | | |
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| | | ENCLO | SURES | (check all that app | ply) | | |
| Fee Transmittal F | Form | Assignment Papers (for an Application) | | | After Allowance Communication to Group | | |
| Fee Attached | 1 | Drawing(s) | | | Appeal Communication to Board of Appeals and Interferences | | |
| Amendment / Res | sponse | Licensing-related Papers | | | Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) | | |
| After Final | | Petition | | | Proprietary Information | | |
| Affidavits/dec | laration(s) | Petition to Convert to a Provisional Application | | | Status Letter | | |
| Extension of Time Request | | Power of Attorney, Revocation Change of Correspondence Address | | ess | Other Enclosure(s) (please identify below): | | |
| Express Abandonment Request | | Terminal Disclaimer Request for Refund | | | E | nternational Preliminary Examination Report; and postcard. | |
| ☐ Information Disclo | osure Statement | | | | } ' | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
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| Certified Copy of Priority Document(s) | | Remarks additional fees that n | | that ma ount No | y be rec | quired under 37 CFR 1.16 or 1.17 0. A duplicate copy of this | |
| Response to Miss Incomplete Applic | | | | , 5,,55,,55 | | | |
| Response to Parts under 3 1.52 or 1.53 | | | | | | | |
| | SIGNA | TURE OF A | PPLIC | ANT, ATTORNE | Y, OR | AGEN1 | T |
| Firm or Harness, Dickey & | | Pierce, P.L.C | | Attorney Name Christopher M. Brock | | | Reg. No. 27313 |
| Individual name | 10/10 | | | | | | |
| Signature Umdople M. Brock | | | | | | | |
| Date | January 22, 2004 | / | | | | | |
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| I hereby certify that the addressed to: Direct transmitted to the U.S. | tor of the U.S. Pat | ent and Trac | lemark (| Office, P.O. Box | 1450, A | Service a lexandria | as express mail in an envelope a, VA 22313-1450, or facsimile |
| Typed or printed name Christopher M. Brock | | ****** | Expr | | Expres | | EV 406 075 847 US (1/22/2004) |
| Signature | Ulm | dopler | - M. | Brook | Date | | January 22, 2003 |

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(PCT Rule 72.2)

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28 September 2003 (28.09.03)

Applicant's or agent's file reference

4035P128WO - TD/cr

International application No.

PCT/EP02/01747

IMPORTANT NOTIFICATION

International filing date (day/month/year)
19 February 2002 (19.02.02)

Applicant

PILZ GMBH & CO. et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Hélène CAMPIN (Fax 338 8970)

Telephone No. (41-22) 338 9716

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Translation

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference 4035P128WO - TD/cr | FOR FURTHER ACTION SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416) | | | | | | |
|--|--|---------------------------|--|--|--|--|--|
| International application No. PCT/EP02/01747 | International filing date (day/mo 19 February 2002 (19.0 | | | | | | |
| International Patent Classification (IPC) or national classification and IPC G05B 9/02 | | | | | | | |
| Applicant PILZ GMBH & CO. | | | | | | | |
| This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. | | | | | | | |
| 2. This REPORT consists of a total of4 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). | | | | | | | |
| These annexes consist of a total of sheets. | | | | | | | |
| 3. This report contains indications relating to the following items: 1 | | | | | | | |
| Date of submission of the demand | Date of c | completion of this report | | | | | |
| 16 July 2002 (16.07. | 02) | 09 May 2003 (09.05.2003) | | | | | |
| Name and mailing address of the IPEA/EP | Authoriz | ed officer | | | | | |
| Facsimile No. | Telephor | ne No. | | | | | |

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ATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP02/01747

| | | of the report | · | | | | | |
|---|-------------|--|--|--|--|--|--|--|
| 1. With regard to the elements of the international application:* | | | | | | | | |
| | \boxtimes | the international application as originally filed | ٠. | | | | | |
| | \boxtimes | the description: |] | | | | | |
| | — . | pages 1-11 | , as originally filed | | | | | |
| | | pages | , filed with the demand | | | | | |
| | | pages, filed with the letter of | | | | | | |
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| | \triangle | the claims: | as originally filed | | | | | |
| | | pages | , as originally filed with any statement under Article 19 | | | | | |
| | | | , filed with the demand | | | | | |
| | | pages 1-6 , filed with the letter of | | | | | | |
| | | pages 1-6 , filed with the letter of _ | 23 (March 2003 (23.03.2003) | | | | | |
| | \boxtimes | the drawings: | | | | | | |
| | | pages 1/1 | , as originally filed | | | | | |
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| | | he sequence listing part of the description: | | | | | | |
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| | | pages, filed with the letter of | | | | | | |
| | These | regard to the language, all the elements marked above were available or furnished to the stemational application was filed, unless otherwise indicated under this item. The elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Ruthe language of publication of the international application (under Ruthe 48.3(b)). The language of the translation furnished for the purposes of international preliminary or 55.3). The regard to any nucleotide and/or amino acid sequence disclosed in the international application was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. | which is: ule 23.1(b)). v examination (under Rule 55.2 and/ | | | | | |
| | Ħ | urnished subsequently to this Authority in written form. | | | | | | |
| | | furnished subsequently to this Authority in computer readable form. | · · | | | | | |
| | | The statement that the subsequently furnished written sequence listing does not international application as filed has been furnished. | go beyond the disclosure in the | | | | | |
| | | The statement that the information recorded in computer readable form is identical been furnished. | to the written sequence listing has | | | | | |
| 4. | | The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig | | | | | | |
| 5. | | This report has been established as if (some of) the amendments had not been made, s beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** | | | | | | |
| * | in th | acement sheets which have been furnished to the receiving Office in response to an invit is report as "originally filed" and are not annexed to this report since they do n 70.17). | ation under Article 14 are referred to ot contain amendments (Rule 70.16 | | | | | |
| ** | | replacement sheet containing such amendments must be referred to under item 1 and anno | exed to this report. | | | | | |
| | | | | | | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 02/01747

 Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| 1. | Statement | | | |
|----|-------------------------------|--------|-----|-------|
| | Novelty (N) | Claims | 1-6 | YES |
| | | Claims | | NO NO |
| | Inventive step (IS) | Claims | 1-6 | YES |
| | | Claims | | NO |
| | Industrial applicability (IA) | Claims | 1-6 | YES |
| | | Claims | | NO |

- 2. Citations and explanations
 - 1. Reference is made to the following publication:

 $D1 = DE - A - 28 \ 01 \ 326$.

- Publication D1 is considered to be the closest prior art. It shows a process for error-free monitoring of the rotation of a wheel shaft comprising the following steps:
 - generation of a characteristic pulse sequence having a number of temporally successive pulses (11, 12, 13, 14), the time interval between which is a function of the rotation of the shaft;
 - determination of a monitoring period t max;
 - monitoring to see whether an expected pulse in the pulse sequence occurs within the monitoring period; and
 - generation of a control signal if the expected pulse fails to occur within the monitoring period (see page 8, lines 26-29).

Furthermore, publication D1 shows that during the monitoring process the monitoring period t max is continually adjusted to the time interval between

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

pulses t₁ (see page 7, lines 17-29).

The subject matter of Claim 1 differs substantially from the disclosure of publication D1 in that the process according to Claim 1 relates to shaft fracture monitoring in a press. Consequently, the subject matter of Claim 1 is novel (PCT Article 33(2)). The fact that the prior art evident from publication D1 has undergone no further development towards the subject matter of the application in almost 25 years, although a need has long existed, speaks in favor of inventive step. Consequently, the subject matter of Claim 1 involves an inventive step (PCT Article 33(3)).

Dependent Claims 2-5 similarly involve an inventive step (PCT Article 33(3)).

Use Claim 6, which corresponds to process Claim 1, involves an inventive step for the same reasons (PCT Article 33(3)).